

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Serguei SOUKHAREV et al.

Title: FLUORESCENT SUBSTRATES FOR DETECTING  
ORGANOPHOSPHATASE ENZYME ACTIVITY

Int'l. Appl. No.: PCT/US2004/007897

Int'l. Filing Date: March 16, 2004

Examiner: Unassigned

Art Unit: Unassigned

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §1.56

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

## RELEVANCE OF EACH DOCUMENT

The documents being cited in the attached PTO/SB/08 were cited as being relevant during the prosecution of the corresponding international application. A copy of the International Search Report is attached setting forth the portion of the documents considered relevant by the examiner. A copy of the cited references listed in the Search Report is not being submitted herewith.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

By J. C. Bent

Date: 14 October 2005

FOLEY & LARDNER LLP  
Customer Number: 22428  
Telephone: (202) 672-5404  
Facsimile: (202) 672-5399

Stephen A. Bent  
Attorney for Applicant  
Registration No. 29,768

a

101553650  
MODIFIED PTO/SB/08 (08-00)

MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: October 14, 2005

*(use as many sheets as necessary)*

*Complete if Known*

14 JUL 2000

Application Number	Unassigned
Filing Date	October 14, 2005
First Named Inventor	Serguei SOUKHAREV
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	089548-0155

Sheet

1

of

2

Attorney Docket Number

089548-0155

U.S. PATENT DOCUMENTS

#### FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

10/553650

MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

JC09 Recd 10/14/2005 PTO 14 OCT 2005

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

Date Submitted: October 14, 2005

(use as many sheets as necessary)

Application Number	Unassigned
Filing Date	October 14, 2005
First Named Inventor	Sergei SOUKHAREV
Group Art Unit	Unassigned
Examiner Name	Unassigned

Sheet 2 of 2 Attorney Docket Number 089548-0155

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
		Peter KOVACS et al., "Fluorimetric analysis of phospholipase activity in Tetrahymena pyriformis GL", BIOSCIENCE REPORTS, vol. 19, no. 2, April 1999, pp. 81-87.	
		C. SCHULTZ et al., "ACETOXYMETHYL ESTERS OF PHOSPHATES, ENHANCEMENT OF THE PERMEABILITY AND POTENCY OF CAMP", Journal of Biological Chemistry, American Society of Biological Chemists, Baltimore MD, vol. 268, no. 9, March 25, 1993, pp. 6316-6322.	
		Kyle R. GEE et al., "Fluorogenic substrates based on fluorinated umbelliferones for continuous assays of phosphatases and beta-galactosidases", ANALYTICAL BIOCHEMISTRY, vol. 273, no. 1, August 15, 1999, pp. 41-48.	
		Z. HUANG et al., "3,6-FLUORESCIN DIPHOSPHATE: A SENSITIVE FLUOROGENIC AND CHROMOGENIC SUBSTRATE FOR PROTEIN TYROSINE PHOSPHATATES", Journal of Biomolecular Screening, Larchmont, NY, US, vol. 4, no. 6, December 1999, pp. 327-334.	
		K R GEE, "Novel fluorogenic substrates for acid phosphatase", BIOORGANIC AND MEDICINAL CHEMISTRY LETTERS, Oxford GB, vol. 9, no. 10, May 17, 1999, pp. 1395-1396.	
		Tatiana O. ZAIKOVA et al., "Synthesis of fluorogenic substrates for continuous assay of phosphatidylinositol-specific phospholipase C", BIOCONJUGATE CHEMISTRY, vol. 12, no. 2, March 2001, pp. 307-313.	
		Q. WANG et al., "Novel caged fluorescein diphosphates as photoactivatable substrates for protein tyrosine phosphatases", BIOCHIMICA ET BIOPHYSICA ACTA, vol. 1601, no. 1, November 19, 2002, pp. 19-28.	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.